



CALIFORNIA STATE GOVERNMENT—AN EQUAL OPPORTUNITY EMPLOYER—EQUAL OPPORTUNITY TO ALL REGARDLESS OF RACE, COLOR, CREED, NATIONAL ORIGIN, ANCESTRY, SEX, MARITAL STATUS, DISABILITY, RELIGION OR POLITICAL AFFILIATION, AGE, OR SEXUAL ORIENTATION.

RESEARCH SCIENTIST II  
(PUBLIC HEALTH ENVIRONMENTAL BIOCHEMISTRY)  
OPEN EXAMINATION  
FINAL FILING DATE: AUGUST 31, 2000

IT IS AN OBJECTIVE OF THE STATE OF CALIFORNIA TO ACHIEVE A DRUG-FREE STATE WORK PLACE, ANY APPLICANT FOR STATE EMPLOYMENT WILL BE EXPECTED TO BEHAVE IN ACCORDANCE WITH THIS OBJECTIVE BECAUSE THE USE OF ILLEGAL DRUGS IS INCONSISTENT WITH THE LAW OF THE STATE, THE RULES GOVERNING CIVIL SERVICE, AND THE SPECIAL TRUST PLACED IN PUBLIC SERVANTS.

**GENERAL POSITION DESCRIPTION**  
Under general direction and supervision, the Research Scientist II (Public Health Environmental Biochemistry) is responsible for the planning and conduct of research of moderate scope and complexity for the purpose to define and identify the extent of exposure from environmental factors related to human health, the relationship of health to chemical and biological factors, and an understanding of methods to prevent, modify, or correct circumstances which may affect individual health and community health or environmental health. The incumbent will identify research problems for study and prepare proposals for research. The incumbent will prepare results of research findings for publication and for presentation to scientific groups and to the public.  
Positions exist with the Office of Environmental Health Hazard Assessment in Oakland and Sacramento.

**HOW TO APPLY**  
This is an open examination. Applications will not be accepted on a promotional basis. Career credits do not apply. Applicants who meet the minimum qualifications stated below may apply and should complete an Examination and/or Employment Application (STD. 678). Resume/curriculum vitae may be included with the application. Applications may be filed in person or mailed to:

OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT  
PERSONNEL MANAGEMENT AND TRAINING SERVICES SECTION  
301 CAPITOL MALL, ROOM 205  
SACRAMENTO, CA 95814-4308  
(916) 445-9376 ATSS 8-485-9376

DO NOT SUBMIT APPLICATIONS TO THE STATE PERSONNEL BOARD.

**CROSS-FILING INFORMATION**  
If you meet the entrance requirements for this class and for the Research Scientist I and/or Research Scientist III (Public Health Environmental Biochemistry), you may file for these examinations on a single application. Indicate the complete title of each examination for which you are applying in the section titled "Examination(s) or Job(s) For Which You Are Applying" on the front page of your application. **Acceptance into additional classes may be not considered after the final filing date.**

**APPLICATION DEADLINE**  
**FINAL FILING DATE: August 31, 2000**  
Applications (STD. 678) must be POSTMARKED no later than August 31, 2000, the final filing date. Applications postmarked, personally delivered, or received via interoffice mail after the final filing date will not be accepted for any reason.

**SALARY RANGE**  
**\$4542-5480 per month**

**REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION**  
**NOTE:** All applicants must meet the education and/or experience requirements for this examination by August 31, 2000, the final filing date. It is your responsibility to make sure you meet the minimum qualifications for this examination by the final filing date. Your signature on your application indicates that you have read, understood, and possess the basic qualifications required.

Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II, "or" III, etc. For example, candidates possessing qualifying experience amounting to 50 percent of the required time of Pattern I, and additional experience amounting to 50 percent of the required time of Pattern II, may be admitted to an examination as meeting 100 percent of the overall experience requirement.

MINIMUM QUALIFICATIONS

Either I

Two years of experience in California state service as a Research Scientist I or a Research Specialist I. Research involved in the completion of the dissertation required for the doctoral degree may be substituted for one year of the required experience.

Or II

**Experience:** Three years of research experience in the last five years in Public Health Environmental Biochemistry or a closely related field. The research experience must have included responsibility for determining research design, choice of methods, and analysis of findings. The research involved in completion of the dissertation required for the doctoral degree may be substituted for one year of the required experience. **and**  
**Education:** Possession of a master's degree in Public Health Environmental Biochemistry or in a closely related field.

**NOTE:** Closely related fields (for both experience and education) to Public Health Environmental Biochemistry include the following: environmental toxicology, environmental chemistry, environmental sciences, environmental engineering, and biochemistry, toxicology, chemistry, or other fields with emphasis on environmental biochemistry and exposure assessment.

**NOTE:** The term "research" as applied to this class series is characterized in part by the following attributes: Application of the scientific method including definition of the nature and scope of the problem; development of hypotheses for study, design, and execution of experiments, epidemiologic or behavioral investigations; analysis and interpretation of findings; and documentation and appropriate dissemination of results.

**REQUIRED APPLICATION INFORMATION**  
**NOTE:** All applications/resumes must include "to" and "from" dates (month/day/year), time base, and civil service class titles in order to compute the amount of qualifying experience and provide sufficient detail in the description of duties as to how applicant meets the required type of experience as stated in the minimum qualifications. **Applications received without the above information will be rejected.**

**SUPPLEMENTAL APPLICATION**  
**NO WRITTEN TEST IS REQUIRED. THE ENTIRE EXAMINATION WILL CONSIST OF A SUPPLEMENTAL APPLICATION.**  
Candidates who meet the Requirements for Admittance to the Examination (minimum qualifications) will be mailed a supplemental application which is a written questionnaire designed to elicit a range of specific information regarding each candidate's knowledge, abilities, and potential to effectively perform the duties relative to the classification. It is anticipated that the supplemental applications will be mailed to qualifying candidates in September/October 2000. **RETURN OF THE SUPPLEMENTAL APPLICATION IS MANDATORY.** Candidates who do not return the supplemental application will be eliminated from this examination.

EXAMINATION INFORMATION	<div>SUPPLEMENTAL APPLICATION – WEIGHTED 100 PERCENT</div> <div>INTERVIEWS WILL NOT BE HELD. This examination will consist of a supplemental application only. Information on the supplemental application will be used to assess on a competitive basis each candidate's relevant training and experience. In order to obtain a position on the eligible list, a minimum rating of 70 percent must be attained.</div> <div>Scope:</div> <div><div>A. Knowledge of:</div><div><div>1. An indepth understanding of biochemistry, toxicology, organic, inorganic, analytical, and physical chemistry, and public health.</div><div>2. Application of biochemical methods and bioassays to environmental processes.</div><div>3. Methods of collection and analysis of environmental samples.</div><div>4. Principles of environmental fate and transport of chemicals.</div><div>5. Principles and procedures of research planning, design, methodology, and analysis.</div><div>6. Methods of preparation of research reports and publications.</div><div>7. Statistical methods and procedures and data processing techniques, including computerized compilation and analysis of data.</div></div><div><div>B. Ability to:</div><div><div>1. Exercise creativity and critical judgment in recognizing and selecting appropriate problems for study.</div><div>2. Evaluate the adequacy of proposed research designs and techniques.</div><div>3. Critically analyze and interpret results of research.</div><div>4. Communicate effectively.</div><div>5. Consult in an expert capacity with professional staff and with officials of federal, state, local, university, and private research organizations.</div><div>6. Analyze situations accurately and take appropriate action.</div><div>7. Prepare reports and articles for internal distribution and for external publications.</div></div></div></div> <tr><td>SPECIAL TESTING ARRANGEMENT</td><td>If you have a disability and need special arrangements, mark the appropriate box for Question 2 of the Examination and/or Employment Application (STD. 678). You will be contacted to make specific arrangements.</td></tr> <tr><td>ELIGIBLE LIST INFORMATION</td><td>An eligible list for the Office of Environmental Health Hazard Assessment will be abolished 12 months after it is established unless the needs of service and conditions of the list warrant a change in this period.</td></tr> <tr><td>VETERANS PREFERENCE</td><td>Veterans preference credits will not be granted in this examination since it does not qualify as an entrance examination under the law.</td></tr>	SPECIAL TESTING ARRANGEMENT	If you have a disability and need special arrangements, mark the appropriate box for Question 2 of the Examination and/or Employment Application (STD. 678). You will be contacted to make specific arrangements.	ELIGIBLE LIST INFORMATION	An eligible list for the Office of Environmental Health Hazard Assessment will be abolished 12 months after it is established unless the needs of service and conditions of the list warrant a change in this period.	VETERANS PREFERENCE	Veterans preference credits will not be granted in this examination since it does not qualify as an entrance examination under the law.
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GENERAL INFORMATION

**For an examination** without a written feature it is the candidate's responsibility to contact the Office of Environmental Health Hazard Assessment at (916) 445-9376 or (ATSS) 8-485-9376, three weeks after the final filing date if he/she has not received a progress notice.

**Applications** are available at State Personnel Board offices, local offices of the Employment Development Department, and the department noted on the other side of this bulletin. Applications can also be accessed at the State Personnel Board's website at <http://www.spb.ca.gov>.

**If you meet the requirements** stated on the other side of this bulletin, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination described on the other side of this bulletin will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

**The Office of Environmental Health Hazard Assessment** reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service law and rules and all competitors will be notified.

**Examination Locations:** When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, oral interviews are scheduled in Sacramento and Oakland. However, locations of interviews may be limited or extended as conditions warrant.

**Eligible Lists:** Eligible lists established by competitive examination regardless of date, must be used in the following order: (1) subdivisional promotional, (2) departmental promotional, (3) multidepartmental promotional, (4) service wide promotional, (5) departmental open, and (6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in from one to four years unless otherwise stated on this bulletin.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

**Interview Scope:** If an interview is conducted, in addition to the scope described on the other side of this bulletin, the panel will consider education, experience, personal development, personal traits, and fitness. In appraising experience more weight will be given to the breadth and recency of pertinent experience and evidence of the candidate's ability to accept and fulfill increasing responsibilities than to the length of his/her experience. Evaluation of a candidate's personal development will include consideration of his/her recognition of his/her own training needs, his/her plans for self-development, and the progress he/she has made on his/her efforts toward self-development.

**Veterans Preference:** California law allows granting of veterans' preference credits in open entrance and open, nonpromotional examinations. Credit in open entrance examinations is granted as follows: 10 points for veterans, widows and widowers of veterans, and spouses of 100% disabled veterans; and 15 points for disabled veterans. Credit in open, nonpromotional examinations is granted as follows: 5 points for veterans; and 10 points for disabled veterans. Directions for applying for veterans' preference credits are on the Veteran Preference Application (Form 1093) which is available from the State Personnel Board office, written test proctors, and the Department of Veterans Affairs, P.O. Box 942895, Sacramento, CA 94295-0001.

**High School Equivalence:** Equivalence to completion of the 12<sup>th</sup> grade may be demonstrated in any one of the following ways: 1) passing the General Educational Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the candidate is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.

**Career Credits:** In open, nonpromotional examinations, career credits are granted to: 1) State employees with permanent civil service status, 2) full-time employees of the State who are exempt from State civil service pursuant to the provisions of Section 4 of Article VII of the California Constitution, and who meet all qualification requirements specified by the Board and have 12 consecutive months of service in an exempt position, and 3) individuals who have served one full year in, or are graduates of, the California Conservation Corps (eligibility shall expire 24 months after graduation from the California Conservation Corps). Three points are added to the final test score of those candidates who meet the above criteria, and who are successful in the examination. Such examinations cannot be for managerial positions described in Government Code Section 3513. Competitors not currently employed in State civil service who have mandatory reinstatement rights may also be eligible for career credits, but they must explain their civil service status in the appropriate section of the Employment Application Form 678. (Section 4 of Article VII of the California Constitution is posted at the State Personnel Board, 801 Capitol Mall, Sacramento.)

TDD is Telecommunications Device of the Deaf and is reachable only from phones equipped with a TDD Device.

California Relay (Telephone) Service for the Deaf or Hearing Impaired:  
From TDD phones: 1-800-735-2929  
From Voice Telephones: 1-800-735-2922